

10/642,754

=> file caplus

FILE 'CAPLUS' ENTERED AT 13:39:43 ON 26 MAY 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 26 May 2004 VOL 140 ISS 22

FILE LAST UPDATED: 25 May 2004 (20040525/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d quw

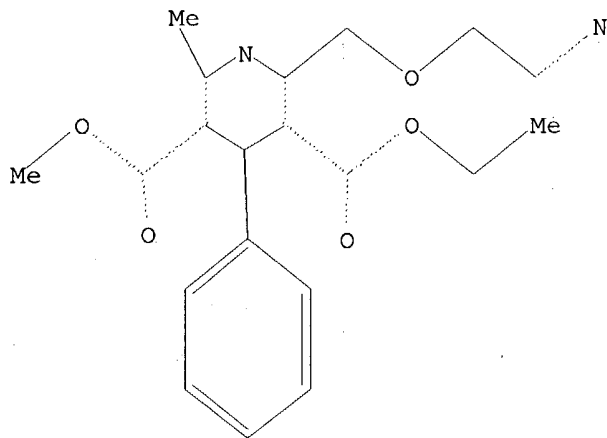
'QUW' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'

ENTER DISPLAY FORMAT (BIB):end

=> d que

L1

STR



Structure attributes must be viewed using STN Express query preparation.

L3 612 SEA FILE=REGISTRY SSS FUL L1

L4 1411 SEA FILE=CAPLUS L3

L5 1 SEA FILE=CAPLUS L4 AND PYROGLUTAMATE

=> d l5 ibib abs hitstr

L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2004:157497 CAPLUS

DOCUMENT NUMBER: 140:199208

TITLE: Preparation of amlodipine pyroglutamic acid salts with improved stability and solubility.

INVENTOR(S): Youn, Yong Sik; Cho, Seong Hwan; Park, Choong Sil;
Kim, Yun Cheul; Lim, Dong Kwon; Jung, Sung Hak; Lee,
Sung Hak; Kang, Hyun Suk; Park, Kyung Mi; Jung, Yun
Taek; Kim, Young Hoon; Yeon, Kyu Jeong; Chae, Myeong
Yun; Jin, Hae Tak; Suh, Hea Ran; Lee, Kwang Hyeg; Lee,
Hyuk Koo

PATENT ASSIGNEE(S): CJ Corporation, S. Korea

SOURCE: Eur. Pat. Appl., 16 pp.
CODEN: EPXXDW

DOCUMENT TYPE: Patent

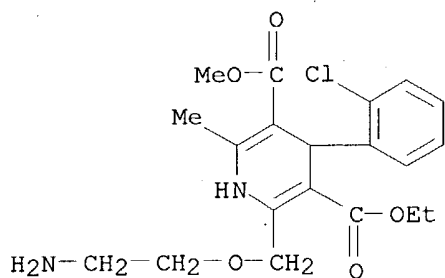
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1391453	A1	20040225	EP 2003-18653	20030820
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
WO 2004018426	A1	20040304	WO 2003-KR1677	20030821
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2004131483	A2	20040430	JP 2003-297765	20030821
PRIORITY APPLN. INFO.:			KR 2002-49422	A 20020821
AB	A pyroglutamic acid salt of amlodipine is claimed. Thus, amlodipine in EtOAc was treated with (S)-pyroglutamic acid at 25.degree. followed by stirring for 1 h to give 95.3% amlodipine (S)- pyroglutamate . The latter showed improved stability on storage relative to the besylate, tosylate, and hydrochloride salts.			
IT	663180-17-4P 663180-18-5P 663180-19-6P RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of amlodipine pyroglutamic acid salts with improved stability and soly.)			
RN	663180-17-4 CAPLUS			
CN	L-Proline, 5-oxo-, compd. with 3-ethyl 5-methyl 2-[(2-aminoethoxy)methyl]- 4-(2-chlorophenyl)-1,4-dihydro-6-methyl-3,5-pyridinedicarboxylate (1:1) (9CI) (CA INDEX NAME)			
CM	1			
CRN	88150-42-9			
CMF	C20 H25 Cl N2 O5			

10/642,754

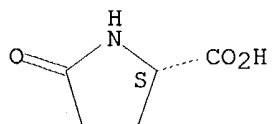


CM 2

CRN 98-79-3

CMF C5 H7 N O3

Absolute stereochemistry. Rotation (-).



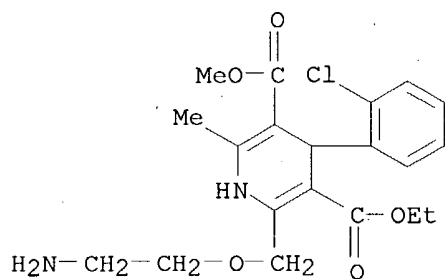
RN 663180-18-5 CAPLUS

CN D-Proline, 5-oxo-, compd. with 3-ethyl 5-methyl 2-[(2-aminoethoxy)methyl]-4-(2-chlorophenyl)-1,4-dihydro-6-methyl-3,5-pyridinedicarboxylate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 88150-42-9

CMF C20 H25 Cl N2 O5



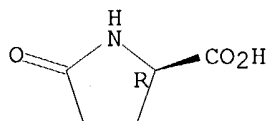
CM 2

CRN 4042-36-8

CMF C5 H7 N O3

Absolute stereochemistry. Rotation (+).

10/642,754



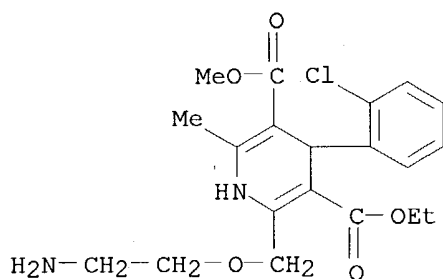
RN 663180-19-6 CAPLUS

CN Proline, 5-oxo-, compd. with 3-ethyl 5-methyl 2-[(2-aminoethoxy)methyl]-4-(2-chlorophenyl)-1,4-dihydro-6-methyl-3,5-pyridinedicarboxylate (1:1)
(9CI) (CA INDEX NAME)

CM 1

CRN 88150-42-9.

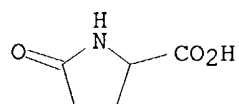
CMF C20 H25 Cl N2 O5



CM 2

CRN 149-87-1

CMF C5 H7 N O3



IT 88150-42-9, Amlodipine

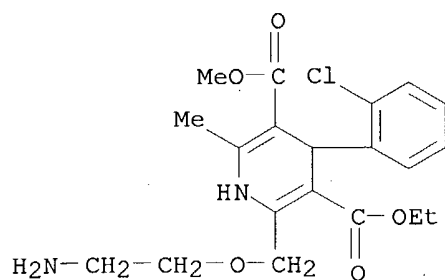
RL: RCT (Reactant); RACT (Reactant or reagent)

(prepn. of amlodipine pyroglutamic acid salts with improved stability and soly.)

RN 88150-42-9 CAPLUS

CN 3,5-Pyridinedicarboxylic acid, 2-[(2-aminoethoxy)methyl]-4-(2-chlorophenyl)-1,4-dihydro-6-methyl-, 3-ethyl 5-methyl ester (9CI) (CA INDEX NAME)

10/642,754



REFERENCE COUNT:

3

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT